

**I. GENERAL EDUCATION CURRICULUM ..... 44**

Chemistry 1101/1110 & 1102/1120 fulfills Science Inquiry Perspective. Math 1110 fulfills Quantitative Literacy requirement.

**II. PROFESSIONAL EDUCATION REQUIREMENTS ..... 24**

A minimum grade of C is required in each professional education course. CI 2300 & FDN 2400 are required prior to admission to Teacher Educ.

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|-----------|------------|--|-----------------------|
| CI 2300   | _____ (2)  | Teaching and Learning in the Digital Age (Entry course to teacher education)   |                       |
| FDN 2400  | _____ (2)  | Critical Perspectives on Teaching and Learning (Pre or Co: CI 2300) (Entry course to teacher education)  |                       |
| PSY 3010  | _____ (3)  | Psychology Applied to Teaching (Pre or Co: CI 2300)  | <b>PROFICIENCIES:</b> |
| SPE 3300* | _____ (3)  | Creating Inclusive Learning Communities (Pre: CI 2300, FDN 2400, PSY 3010)   | Reading _____         |
| CI 3400*  | _____ (2)  | Policies and Practice in Educational Assessment (Pre: CI 2300, FDN 2400, PSY 3010)   | English _____         |
| CI 4900   | _____ (12) | Student Teaching [CAP] (All courses in professional core must be completed with grades of C (2.0) or higher prior to student teaching, along with other courses (including methods and reading) identified within the major. | Speech _____          |

\*Admission to Teacher Education required.

**NOTE:** To be admitted to the Teacher Education Program students must take and satisfy testing requirements for Reading, Writing and Math areas of the PRAXIS (PPST or CBT). The PRAXIS II Area Exams are required for student teaching.

**III. MAJOR REQUIREMENTS (Not including 12 semester hours already counted in I, above) ..... 55-56**

2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under III. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.

**A. Biology Core Requirements: 8 semester hours (must be completed before taking any other biology courses)**

BIO 1801 \_\_\_\_\_ (4) Biological Concepts I (Co: CHE 1101) **AND** BIO 1802 \_\_\_\_\_ (4) Bio Concepts II (Pre: Bio 1801 w/min grade "C")

**B. Additional Required Biology Courses: 22-23 semester hours (Pre: BIO 1801 & 1802 required for all additional BIO courses)**

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|---|--|
| BIO 2400 _____ (3) Genetics (Pre: BIO 1801, CHE 1102, MAT 1025)   |  |
| BIO 2410 _____ (1) Genetics Laboratory (Pre/Co: BIO 2400/2700)  |  |
| BIO 3436 _____ (3) Introduction to Evolutionary Biology   |  |
| BIO 3312 _____ (3) Environmental Studies [WID] (Pre: CHE 2201 or 2101; ENG 2001)  |  |
| BIO 3521 _____ (1) Secondary Science Field Experience   |  |
| BIO 3800 _____ (4) Molecular Biology [WID] (Pre: 1 semester organic CHE; ENG 2001)  |  |
| BIO 3301 _____ (4) Human Systems Physiology [WID] (Pre: CHE 2201/2101; ENG 2001) <b>OR</b> BIO 4555 _____ (4) Plant Phys (Pre: CHE 1102/1120) |  |

Major Requirements that count in Gen Educ:		
Quantitative Lit	MAT 1110	4 s.h.
Science Inquiry	CHE 1101/1110	4 s.h.
	CHE 1102/1120	4 s.h.
Total Major hrs:	67-68	
Gen Ed hrs:	- 12	
Net Major hrs:	55-56	

**Biodiversity: Choose one course from the following: 3-4 semester hours**

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|--|--|
| BIO 2000 _____ (4) Introduction to Botany            | BIO 2001 _____ (4) Introduction to Zoology |
| BIO 3304 _____ (4) Systematic Botany (Pre: BIO 2000) | BIO 3310 _____ (4) Marine Sciences         |
| BIO 4551 _____ (4) Ornithology                       | BIO 4552 _____ (4) Entomology              |
| BIO 4556 _____ (4) Mycology                          | BIO 4557 _____ (4) Ichthyology             |
| BIO 4558 _____ (3) Taxonomy of the Fleshy Fungi      | BIO 4559 _____ (4) Mammalogy               |
| BIO 4560 _____ (4) Herpetology                       | BIO 4569 _____ (4) Invertebrate Zoology    |
| BIO 4570 _____ (4) Parasitology                      |  |

**C. Required Cognate Courses: 37 semester hours (12 semester hours of cognate courses are counted in general ed requirements.)**

**Chemistry**

- CHE 1101/1110 \_\_\_\_\_ (4) Intro. Chem I & lab  
 CHE 1102/1120 \_\_\_\_\_ (4) Intro. Chem II & lab (Pre: CHE 1101/1110)  
 CHE 2101/2203 \_\_\_\_\_ (4) Fundamentals of Organic Chem I & lab (Pre: CHE 1102/1120)

**Mathematics**

- MAT 1110 \_\_\_\_\_ (4) Calc w/Analytical Geom. I (Pre: MAT 1025 w/C-)  
 STT 2810 \_\_\_\_\_ (3) Intro to Statistics (Pre: MAT 1010)

**Physics**

- PHY 1103 \_\_\_\_\_ (4) General Physics I (Co: MAT 1020 or 1025)  
 PHY 1104 \_\_\_\_\_ (4) General Physics II (Pre: PHY 1103)

**General Science (minimum grade of "C" required)**

- G S 4403 \_\_\_\_\_ (3) Tchgr Sci in Mid/HS [WID] (Pre: ENG 2001)  
 G S 4404 \_\_\_\_\_ (3) Meaning & Nature of Sci [WID] (Pre: ENG 2001)

**Geology**

- GLY 1101 \_\_\_\_\_ (4) Intro to Physical Geology

**IV. MINOR (optional)**

**V. ELECTIVES (taken to total 128 hours for the degree)..... 4-5**

2 semester hours of free electives must be outside the major discipline. **128**